

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19899	esterase\$1	US-PGPUB; USPAT	AND	OFF	2007/06/21 16:16
L2	475	aquifex or pyrophilus	US-PGPUB; USPAT	AND	OFF	2007/06/21 16:16
L3	10	1 same 2	US-PGPUB; USPAT	AND	OFF	2007/06/21 16:16
L4	50	1 near5 thermostab\$	US-PGPUB; USPAT	AND	OFF	2007/06/21 16:16

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:24:57 ON 21 JUN 2007

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 16:25:13 ON 21 JUN 2007
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s esterase#

FILE 'MEDLINE'

L1 25012 ESTERASE#

FILE 'SCISEARCH'

L2 15860 ESTERASE#

FILE 'LIFESCI'

L3 6468 ESTERASE#

FILE 'BIOTECHDS'

L4 2744 ESTERASE#

FILE 'BIOSIS'

L5 50121 ESTERASE#

FILE 'EMBASE'

L6 16256 ESTERASE#

FILE 'HCAPLUS'

L7 37031 ESTERASE#

FILE 'NTIS'

L8 313 ESTERASE#

FILE 'ESBIOBASE'

L9 4989 ESTERASE#

FILE 'BIOTECHNO'

L10 4672 ESTERASE#

FILE 'WPIDS'

L11 3525 ESTERASE#

TOTAL FOR ALL FILES

L12 166991 ESTERASE#

=> s aquifex or pyrophilus

FILE 'MEDLINE'

290 AQUIFEX

37 PYROPHILUS

L13 290 AQUIFEX OR PYROPHILUS

FILE 'SCISEARCH'

393 AQUIFEX

104 PYROPHILUS

L14 393 AQUIFEX OR PYROPHILUS

FILE 'LIFESCI'

194 AQUIFEX

L15 29 PYROPHILUS
 194 AQUIFEX OR PYROPHILUS

 FILE 'BIOTECHDS'
 46 AQUIFEX
 8 PYROPHILUS
 L16 48 AQUIFEX OR PYROPHILUS

 FILE 'BIOSIS'
 426 AQUIFEX
 63 PYROPHILUS
 L17 430 AQUIFEX OR PYROPHILUS

 FILE 'EMBASE'
 288 AQUIFEX
 38 PYROPHILUS
 L18 288 AQUIFEX OR PYROPHILUS

 FILE 'HCAPLUS'
 535 AQUIFEX
 78 PYROPHILUS
 L19 535 AQUIFEX OR PYROPHILUS

 FILE 'NTIS'
 1 AQUIFEX
 1 PYROPHILUS
 L20 1 AQUIFEX OR PYROPHILUS

 FILE 'ESBIOBASE'
 268 AQUIFEX
 35 PYROPHILUS
 L21 268 AQUIFEX OR PYROPHILUS

 FILE 'BIOTECHNO'
 141 AQUIFEX
 29 PYROPHILUS
 L22 141 AQUIFEX OR PYROPHILUS

 FILE 'WPIDS'
 55 AQUIFEX
 11 PYROPHILUS
 L23 57 AQUIFEX OR PYROPHILUS

 TOTAL FOR ALL FILES
 L24 2645 AQUIFEX OR PYROPHILUS

 => s l12 and l24
 FILE 'MEDLINE'
 L25 1 L1 AND L13

 FILE 'SCISEARCH'
 L26 0 L2 AND L14

 FILE 'LIFESCI'
 L27 0 L3 AND L15

 FILE 'BIOTECHDS'
 L28 2 L4 AND L16

 FILE 'BIOSIS'
 L29 0 L5 AND L17

 FILE 'EMBASE'
 L30 0 L6 AND L18

```

FILE 'HCAPLUS'
L31          4 L7 AND L19

FILE 'NTIS'
L32          0 L8 AND L20

FILE 'ESBIOBASE'
L33          0 L9 AND L21

FILE 'BIOTECHNO'
L34          0 L10 AND L22

FILE 'WPIDS'
L35          2 L11 AND L23

TOTAL FOR ALL FILES
L36          9 L12 AND L24

=> s l12(5a)thermostab?
FILE 'MEDLINE'
          7308 THERMOSTAB?
L37          38 L1 (5A)THERMOSTAB?

FILE 'SCISEARCH'
          10180 THERMOSTAB?
L38          78 L2 (5A)THERMOSTAB?

FILE 'LIFESCI'
          4420 THERMOSTAB?
L39          34 L3 (5A)THERMOSTAB?

FILE 'BIOTECHDS'
          7258 THERMOSTAB?
L40          66 L4 (5A)THERMOSTAB?

FILE 'BIOSIS'
          12737 THERMOSTAB?
L41          68 L5 (5A)THERMOSTAB?

FILE 'EMBASE'
          14222 THERMOSTAB?
L42          38 L6 (5A)THERMOSTAB?

FILE 'HCAPLUS'
          21720 THERMOSTAB?
L43          116 L7 (5A)THERMOSTAB?

FILE 'NTIS'
          196 THERMOSTAB?
L44          1 L8 (5A)THERMOSTAB?

FILE 'ESBIOBASE'
          4377 THERMOSTAB?
L45          38 L9 (5A)THERMOSTAB?

FILE 'BIOTECHNO'
          6565 THERMOSTAB?
L46          26 L10 (5A)THERMOSTAB?

FILE 'WPIDS'
          5862 THERMOSTAB?
L47          8 L11 (5A)THERMOSTAB?

TOTAL FOR ALL FILES
L48          511 L12 (5A) THERMOSTAB?

```

```

=> s l12(10a)(gene/q or nucleic or polynucleotide#)
FILE 'MEDLINE'
    190391 NUCLEIC
    9891 POLYNUCLEOTIDE#
L49      811 L1 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'SCISEARCH'
    39729 NUCLEIC
    4547 POLYNUCLEOTIDE#
L50      884 L2 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'LIFESCI'
    14805 NUCLEIC
    2123 POLYNUCLEOTIDE#
L51      658 L3 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'BIOTECHDS'
    55095 NUCLEIC
    22788 POLYNUCLEOTIDE#
L52      352 L4 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'BIOSIS'
    68448 NUCLEIC
    9548 POLYNUCLEOTIDE#
L53      1456 L5 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'EMBASE'
    40077 NUCLEIC
    4004 POLYNUCLEOTIDE#
L54      659 L6 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'HCAPLUS'
    199160 NUCLEIC
    22408 POLYNUCLEOTIDE#
L55      2445 L7 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'NTIS'
    2035 NUCLEIC
    181 POLYNUCLEOTIDE#
L56      15 L8 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'ESBIOBASE'
    30312 NUCLEIC
    989 POLYNUCLEOTIDE#
L57      511 L9 (10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'BIOTECHNO'
    19939 NUCLEIC
    1566 POLYNUCLEOTIDE#
L58      561 L10(10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

FILE 'WPIDS'
    71231 NUCLEIC
    29267 POLYNUCLEOTIDE#
L59      246 L11(10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

TOTAL FOR ALL FILES
L60      8598 L12(10A) (GENE/Q OR NUCLEIC OR POLYNUCLEOTIDE#)

=> s l48 and l60
FILE 'MEDLINE'
L61      14 L37 AND L49

FILE 'SCISEARCH'

```

L62 18 L38 AND L50

FILE 'LIFESCI'

L63 9 L39 AND L51

FILE 'BIOTECHDS'

L64 21 L40 AND L52

FILE 'BIOSIS'

L65 15 L41 AND L53

FILE 'EMBASE'

L66 12 L42 AND L54

FILE 'HCAPLUS'

L67 34 L43 AND L55

FILE 'NTIS'

L68 0 L44 AND L56

FILE 'ESBIOBASE'

L69 15 L45 AND L57

FILE 'BIOTECHNO'

L70 8 L46 AND L58

FILE 'WPIDS'

L71 5 L47 AND L59

TOTAL FOR ALL FILES

L72 151 L48 AND L60

=> s l72 not 2002-2007/py

FILE 'MEDLINE'

3325308 2002-2007/PY

(20020000-20079999/PY)

L73 5 L61 NOT 2002-2007/PY

FILE 'SCISEARCH'

6109818 2002-2007/PY

(20020000-20079999/PY)

L74 5 L62 NOT 2002-2007/PY

FILE 'LIFESCI'

654341 2002-2007/PY

L75 3 L63 NOT 2002-2007/PY

FILE 'BIOTECHDS'

141741 2002-2007/PY

L76 11 L64 NOT 2002-2007/PY

FILE 'BIOSIS'

3046228 2002-2007/PY

L77 6 L65 NOT 2002-2007/PY

FILE 'EMBASE'

2908040 2002-2007/PY

L78 4 L66 NOT 2002-2007/PY

FILE 'HCAPLUS'

6367456 2002-2007/PY

L79 13 L67 NOT 2002-2007/PY

FILE 'NTIS'

87377 2002-2007/PY

L80 0 L68 NOT 2002-2007/PY

FILE 'ESBIOBASE'

1735052 2002-2007/PY

L81 6 L69 NOT 2002-2007/PY

FILE 'BIOTECHNO'

244553 2002-2007/PY

L82 6 L70 NOT 2002-2007/PY

FILE 'WPIDS'

5305751 2002-2007/PY

L83 0 L71 NOT 2002-2007/PY

TOTAL FOR ALL FILES

L84 59 L72 NOT 2002-2007/PY

=> d 136

L36 ANSWER 1 OF 9 MEDLINE on STN

TI Mutational analysis of the RecJ exonuclease of Escherichia coli:
identification of phosphoesterase motifs.

SO Journal of bacteriology, (1999 Oct) Vol. 181, No. 19, pp. 6098-102.
Journal code: 2985120R. ISSN: 0021-9193.

AU Sutera V A Jr; Han E S; Rajman L A; Lovett S T

AN 1999429858 MEDLINE

=> d 136 2-

YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y

L36 ANSWER 2 OF 9 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI New isolated nucleic acid and its variants comprising specified
consecutive amino acid sequences and corresponding cDNA sequences, encode
polypeptides having esterase activity;
recombinant enzyme production via plasmid expression in host cell, for
ester hydrolysis

AU ROBERTSON D E; MURPHY D; REID J; MAFFIA A M; LINK S; SWANSON R; WARREN P
V; KOSMATKA A

AN 2003-07813 BIOTECHDS

PI US 2002146799 10 Oct 2002

L36 ANSWER 3 OF 9 BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN

TI New nucleic acid encoding heat stable esterases from
thermophilic bacteria;

recombinant thermostable esterases for use in
pharmaceutical, agricultural or food industries, etc.

AU Robertson D E; Murphy D; Reid J; Maffia A M; Link S; Swanson R V; Warren
P V; Kosmotka A; Callen W

AN 1997-11973 BIOTECHDS

PI WO 9730160 21 Aug 1997

L36 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Nucleic acid and polypeptide sequences for alanine 2,3-aminomutase and
their use for production of β -alanine, pantothenate,
3-hydroxypropionic acid, and 1,3-propanediol

SO PCT Int. Appl., 119 pp.

CODEN: PIXXD2

IN Liao, Hans H.; Gokarn, Ravi R.; Gort, Steven J.; Jessen, Holly J.;
Selifonova, Olga

AN 2003:591126 HCAPLUS

DN 139:144955

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI WO 2003062173

A2

20030731

WO 2003-US1635

20030117

WO 2003062173 A3 20050804
 WO 2003062173 A8 20051103
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2473716 A1 20030731 CA 2003-2473716 20030117
 JP 2005525100 T 20050825 JP 2003-562058 20030117
 EP 1575881 A2 20050921 EP 2003-707445 20030117
 EP 1575881 A3 20050928
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 CN 1714146 A 20051228 CN 2003-804939 20030117
 BR 2003007010 A 20060411 BR 2003-7010 20030117
 US 2005221466 A1 20051006 US 2004-502040 20040719

L36 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Identification, cloning and characterization of bacterial
 esterases and methods of designing and use of new
 esterases
 SO U.S. Pat. Appl. Publ., 53 pp., Cont.-in-part of U.S. Ser. No. 382,242.
 CODEN: USXXCO
 IN Robertson, Dan E.; Murphy, Dennis; Reid, John; Maffia, Anthony M.; Link,
 Steven; Swanson, Ronald; Warren, Patrick V.; Kosmatka, Anna
 AN 2002:778638 HCAPLUS
 DN 137:290936

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002146799	A1	20021010	US 2001-903410	20010710
	US 5942430	A	19990824	US 1996-602359	19960216
	JP 2003339391	A	20031202	JP 2003-148286	19970211
	EP 1550721	A2	20050706	EP 2004-17203	19970211
	EP 1550721	A3	20070418		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 2002164725	A1	20021107	US 2001-27805	20011221
	US 2003054530	A1	20030320	US 2001-27804	20011221
	WO 2004035729	A2	20040429	WO 2002-US22336	20020710
	WO 2004035729	A3	20050818		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002368222	A1	20040504	AU 2002-368222	20020710

L36 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Nucleic acids encoding human cyclic nucleotide-associated proteins
 SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 IN Hillman, Jennifer L.; Yue, Henry; Guegler, Karl J.; Corley, Neil C.;
 Patterson, Chandra; Tang, Y. Tom
 AN 2000:175945 HCAPLUS
 DN 132:218013

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000014248	A1	20000316	WO 1999-US20287	19990903
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2349210	A1	20000316	CA 1999-2349210	19990903
	AU 9960263	A1	20000327	AU 1999-60263	19990903
	EP 1144648	A1	20011017	EP 1999-968683	19990903
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2003524379	T	20030819	JP 2000-568989	19990903

L36 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Novel bacterial esterases identification after recombinant expression and esterase and cDNA sequences

SO PCT Int. Appl., 112 pp.

CODEN: PIXXD2

IN Robertson, Dan E.; Murphy, Dennis; Reid, John; Maffia, Anthony M.; Link, Steven; Swanson, Ronald V.; Warren, Patrick V.; Kosmotka, Anna; Callen, Walter

AN 1997:568292 HCAPLUS

DN 127:231209

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9730160	A1	19970821	WO 1997-US2039	19970211
	W: AU, CA, IL, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5942430	A	19990824	US 1996-602359	19960216
	CA 2246737	A1	19970821	CA 1997-2246737	19970211
	AU 9721195	A	19970902	AU 1997-21195	19970211
	AU 716692	B2	20000302		
	EP 880590	A1	19981202	EP 1997-906528	19970211
	EP 880590	B1	20041020		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001505403	T	20010424	JP 1997-529411	19970211
	JP 2003339391	A	20031202	JP 2003-148286	19970211
	AT 280230	T	20041115	AT 1997-906528	19970211
	EP 1550721	A2	20050706	EP 2004-17203	19970211
	EP 1550721	A3	20070418		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

L36 ANSWER 8 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI New isolated nucleic acid and its variants comprising specified consecutive amino acid sequences and corresponding cDNA sequences, encode polypeptides having esterase activity

PI US 20020146799 A1 20021010 (200317)* EN 53[21]

WO 2004035729 A2 20040429 (200429) EN

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

AU 2002368222 A1 20040504 (200467) EN

AU 2002368222 A8 20051117 (200638) EN
IN KOSMATKA A; LENOX A; LINK S; MAFFIA A; MAFFIA A I; MAFFIA A M; MATHUR E J;
MURPHY D; REID J; ROBERTSON D; ROBERTSON D E; SHORT J M; SWANSON R;
SWANSON R V; WARREN P V

L36 ANSWER 9 OF 9 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Nucleic acid encoding heat stable esterase from thermophilic
bacteria - which is active in organic solvents, useful in cheese or paper
manufacture, and to study plant resistance to disease

PI WO 9730160 A1 19970821 (199739)* EN 112[20]
RW: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
W: AU CA IL JP US
AU 9721195 A 19970902 (199751) EN
EP 880590 A1 19981202 (199901) EN
R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
US 5942430 A 19990824 (199941) EN
AU 716692 B 20000302 (200021) EN
JP 2001505403 W 20010424 (200130) JA 111
JP 2003339391 A 20031202 (200404) JA 79
EP 880590 B1 20041020 (200469) EN
R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
DE 69731279 E 20041125 (200477) DE
EP 1550721 A2 20050706 (200544) EN
R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
IN CALLEN W; KOSMOTKA A; LINK S; MAFFIA A M; MURPHY D; REID J; ROBERTSON D E;
SWANSON R V; WARREN P V

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
40.13	40.34

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 16:33:29 ON 21 JUN 2007